

the front surface is not perpendicular to the A-axis, a part-on-mount procedure can be used to separate the A-axis misalignment from errors due to the front surface not being orthogonal to the A-axis.

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3. At page 15, following line ~~25~~ ending in "to the workstation.", kindly insert the following:

In some cases, an additional element, termed an "aperture converter", may be added after the gauge mainframe but before the focusing element. The function of the aperture converter is to obtain a different beam size by magnifying or demagnifying the beam (e.g. changing a 100 mm beam to a 25 mm beam). Aperture converters are usually afocal telescope assemblies (examples include in spyglasses, binoculars, and peepholes). The aperture converter can be aligned in the same manner as the mainframe, so that the beam angle emerging from the aperture converter is the same as that emerging from the gauge mainframe.

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4. At page 17, following line ~~14~~ ending in "intersects the A axis.", kindly insert the following:
Note that for long radius focusing elements or diverging elements (where the point of convergence is behind the focusing element), steps b)ii) and b)iii) are not applicable. The resulting alignment therefore may not be as accurate. If, however, the gauge mainframe is an interferometer whose source has some spatial incoherence (and thus point 36 would not actually be a point but a

The rest of the focusing element alignment procedure can be performed as normal.

5. At page 17, line 20, after "the gauge reticle.", kindly insert the following:

At this time, an optional step may be performed for an interferometer: switch to fringe viewing mode, mount a corner cube, and use the transmission element tip/tilt adjustments to minimize the X and Y tilt observed in the fringe pattern between the corner cube retroreflection and the transmission flat.

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6. At page 21, line ~~23~~, after "precision of the machine).", kindly insert the following:

After this step is completed, the gauge mainframe may be realigned in accordance with the second step, if desired.